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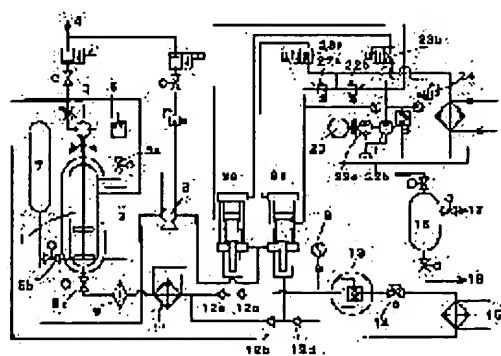
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(54) METHOD FOR CRUSHING SOLID GRAIN AND DEVICE THEREFOR

(57)Abstract:

PROBLEM TO BE SOLVED: To separate a crushed fine grain from the dispersion without the fine grain being reaggregated by dispersing and crushing the high-pressure suspension and then reducing the pressure to gasify the fluid and separating the solid grain.

SOLUTION: A powder to be atomized is charged into a raw material regulating tank 1, and carbon dioxide is introduced into the tank 1 from a liquefied carbon dioxide storage tank 7. The powder is agitated by an agitator 3 and uniformly suspended, then a valve 5c is opened, and high pressure generating pumps 9a and 9b are operated. The suspension of the granular body is controlled in temp. by a heat exchanger 11, passed through check valves 12c and 12d, pressurized by the pumps 9a and 9b, sent to a dispersing and crushing means 13 through the check valves 12c and 12d and crushed. The crushed suspension is introduced into a separation tank 16 and reduced in pressure. The suspension discharged from the crushing means 13 is immediately vaporized to separate a fine grain. The gaseous carbon dioxide 17 separated by the separation tank 16 is reused as liquefied carbon dioxide.



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